

Abstract

Described is an Mg material comprising a matrix with a C long-fiber reinforcement, wherein to improve the strength of the material transversely with respect to the fiber direction the C long fibers are provided with a thin layer, wherein at least one element of the layer material of the thin layer forms a homogeneous chemical reaction layer with the respective C long fiber and wherein the thin layer forms a diffusion barrier so that the local formation of relatively coarse reaction products of alloying elements from the matrix with the C long fibers, which act as crack initiators, is prevented. Uses of the Mg material according to the invention are also described.